Thermo Menu
Service Manual

Welch Allyn

SureTemp Thermometer

Model 679V - Veterinary Version

Operating
Instruction
Manual

Thank you for purchasing the Welch Allyn Model 679V SureTemp® thermometer. The operating and maintenance instructions found in this manual should be followed to ensure years of accurate and reliable service. Please read these instructions thoroughly before using your 679V SureTemp® thermometer.

Technical service manuals may be ordered by contacting Welch Allyn Customer Service at (800) 854-2904.

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U.S. and Foreign patents pending.

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INTRODUCTION

The Welch Allyn 679V SureTemp is a portable thermistor thermometer to be used for measuring patient temperatures ranging from 84°F to 108°F (28.9°C to 42.2°C). Rectal probes utilize single-use disposable probe covers which limit cross-contamination. Rectal temperatures are taken using Normal or Monitor operating modes. In the **Normal** mode, the thermometer's microprocessor "predicts" body temperature in about in about 15 seconds for rectal temperatures. The **Monitor** mode continuously displays the temperature of the probe which will reflect the patient's actual temperature in about 3 minutes and will continue for as long as the probe remains in place.

SAFETY & WARNINGS

⚠ DO NOT USE IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

In order to obtain accurate and reliable temperature-taking results and ensure patient safety, it is important that this booklet be read thoroughly prior to using the instrument. If you have any technical or clinical questions concerning the thermometer's use and/or care, please contact our Customer Service Department at (800) 854-2904.

- Single-use disposable probe covers, available from Welch Allyn, will limit patient cross-contamination. The use of any other probe cover or the failure to use a probe cover may produce temperature errors and will invalidate the instrument's warranty.
- Rectal probes (red ejection button) are to be used for taking rectal temperatures only. The use of the wrong probe will produce temperature errors.
- The thermometer case is not waterproof; do not drip fluids onto it.
- Do not use this instrument for any purpose other than that specified in this booklet. Doing so will invalidate the instrument's warranty.
- Do not use the thermometer if you notice any signs of damage to the probe or instrument. Contact our Customer Service Department for immediate assistance.
- Do not ETO sterilize without using proper procedures described in the 679V SureTemp technical manual.

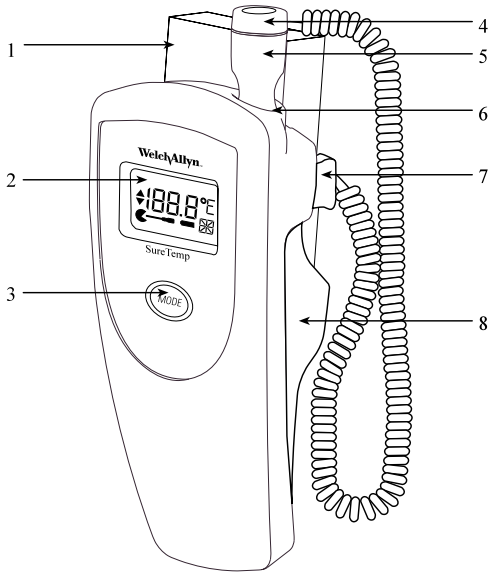


Figure 1

1. Probe cover box
2. Display
3. Mode button
4. Probe cover ejection button
5. Probe handle
6. Probe storage channel
7. Latching probe connector
8. Battery door

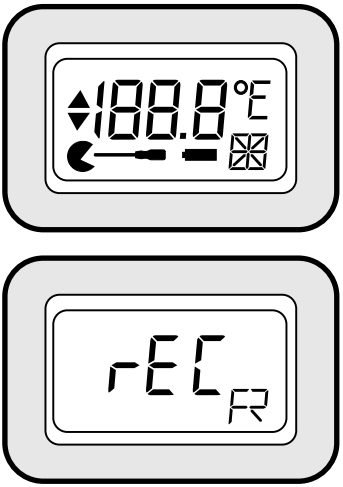
WALL MOUNTING INSTRUCTIONS

The optional wall mount bracket should be mounted approximately 48 inches from the floor. This allows the end user of average height relatively easy access to the probe and probe covers. It should have at least 12 inches of clearance on the top of the unit so that the end user can easily remove the thermometer probe and load a probe cover without hindrance. Clearance of at least 4 inches from the bottom of the unit and from either side is also advisable to prevent tangling of the probe cord with other equipment at the bedside.

The wall mount bracket should be mounted in a location so that when a thermometer is installed, the display can be read easily. Placement should also ensure that the probe can be readily removed from the thermometer, a probe cover can be easily installed and the probe can be returned to its position without stress being placed on either the instrument, the wall mount or most importantly, the patient.

SETUP

1. Install the supplied Rectal probe by inserting the latching plug on the end of the coiled cord into the plug receptacle on the unit. The plug snaps into place and cannot be removed without depressing the latch. (Figure 1).
2. Observe the LCD to see that the probe type rEC = Rectal is displayed.
3. Insert probe shaft completely into probe storage channel.
4. Remove the probe from the storage channel.
5. Observe the LCD to see that all display segments appear followed by the display of the probe type rEC = Rectal and temperature scale (°C or °F). Replace probe in storage channel.
6. Insert a box of disposable probe covers (part number 05031) into the probe cover storage well.



CHANGING PROBES

- Depress the latch and unplug the probe connector from the thermometer.
- Remove the probe from the storage channel.
- Repeat steps 1 through 6 in the SETUP section.

FEATURES

- Normal Mode: The thermometer takes rectal temperatures in about 15 seconds. The unit will always operate in Normal mode unless the Mode button is depressed for more than 2 seconds after the initial temperature is displayed which changes it to Monitor Mode. Replacing the probe in the storage channel automatically resets the unit to Normal mode.
- Monitor Mode: Monitor mode is generally used for long term (continuous) temperature monitoring or when difficult situations prevent accurate temperatures from being taken in the Normal mode.
- Rectal Probe with 4' coiled cord and latching plug.
- Optional Rectal Probe with 9' coiled cord and latching plug.
- Mode Button: Recalls the last Normal mode temperature taken, converts temperatures from °F to °C, switches the unit to Monitor Mode.

Mode Table

Feature	Procedure
Toggle Between °C or °F Setting	Press and release Mode button any time a temperature is displayed
Monitor Mode	With the probe removed from the probe storage channel, press Mode button for **more than 2 seconds** after Normal temperature is displayed.
Temperature Recall	Press and release Mode button when the display is blank.

DISPLAY INDICATORS

Instrument Malfunction: This icon is displayed if the unit is not functioning properly. Contact the Welch Allyn Customer Service Department.

Broken Probe: If displayed, probe may be damaged. Remove and reinstall probe. If error persists, then install a new probe.

Probe Position: Probe has broken contact with the tissue. Once proper contact has been achieved, the icon will be turned off but will reappear at the end of the temperature measurement. It is recommended that a new temperature be taken.

Rectal Probe: This icon is displayed to show that the rectal mode has been selected.

Walking Segments: This will be displayed when the thermometer is in process of taking a temperature in the Normal mode.

Monitor Mode: Monitor mode is generally used for long term temperature monitoring, or when difficult situations prevent accurate temperatures from being taken in the Normal mode.

▲ High Temperature: This icon is displayed if the patient's temperature is greater than 108.0°F (42.2°C).

▼ Low Temperature: This icon is displayed if the patient's temperature is less than 84.0°F (28.9°C).

▲ A High Ambient Temperature: This icon is displayed if the ambient temperature is greater than 104°F (40°C).

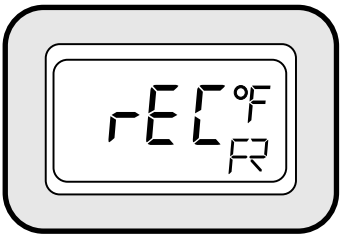
▼ A Low Ambient Temperature: This icon is displayed if the ambient temperature is less than 60.8°F (16.0°C).

▬ Low Battery: This icon is flashes when batteries are low and will remain on when batteries are dead.

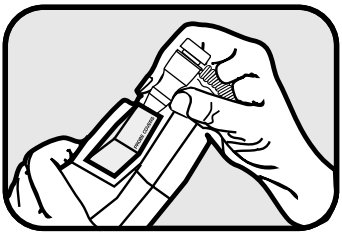
Display Test: All segments of the thermometer display will appear briefly when the probe is removed from the storage channel to ensure proper function.

OPERATION

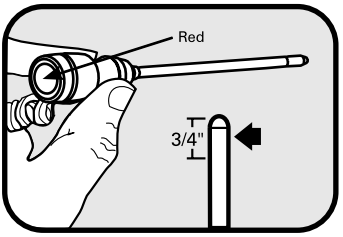
1. Withdraw the probe from the storage channel and observe a thermometer display test followed by an audible tone and a display of the probe type rEC = Rectal.



2. Load a probe cover onto the probe. Hold probe handle collar with thumb and forefinger, being careful not to hold or press the "ejection" button. Press the collar down firmly to secure the cover.



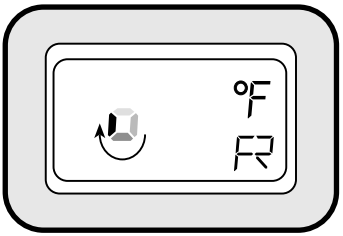
3. Lift the tail of the patient with one hand. Using the other hand, gently insert the probe only 3/4 inch inside the rectal sphincter (less for patients under 20 lbs.). The use of lubricant is optional.



WARNING: **Incorrect insertion can cause bowel perforation.**

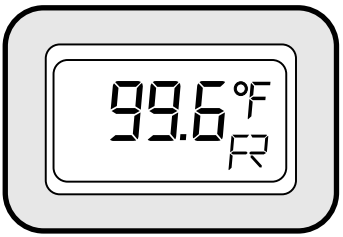
4. Hold the probe in a stable position during the entire temperature measurement cycle. It is important that there be no probe movement during the 15 second measurement cycle to assure accurate results. An assistant may be necessary to control difficult patients.

5. During the temperature measurement cycle, "walking" segments will appear on the display indicating measurement is in process.



6. When the final temperature is reached, a tone will sound and the temperature will be displayed.

7. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button on the probe. (Figure 1).



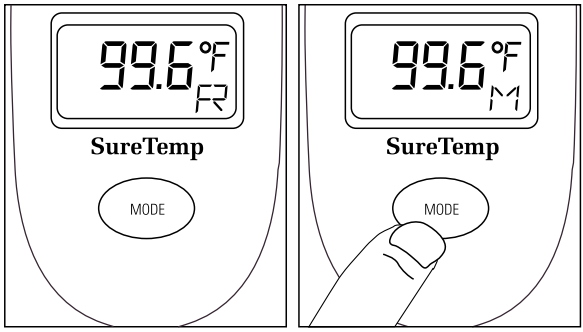
8. Insert the probe into the storage channel to clear the display, in preparation for another temperature.

9. Wash hands (note: washing hands greatly reduces the risk of cross-contamination and NSI).

Note: When using the Monitor mode, allow the temperature readout to stabilize for 3 minutes

USING MONITOR MODE

Remove the probe from the storage channel and take a temperature. After the temperature is displayed, depress the Mode button for more than 2 seconds. The "M" icon will appear on the LCD indicating the unit is in Monitor mode. The unit is ready to continuously display temperatures in Monitor mode. After the Monitor mode temperature has been taken, replacing the probe in the storage channel clears the display and resets the thermometer to Normal mode. The unit will automatically enter the Monitor mode by removing the probe from the probe storage channel and waiting 60 seconds.



1. Take a rectal temperature and wait for the display to appear.

2. Press Mode button for at least 2 seconds to change to Monitor mode.

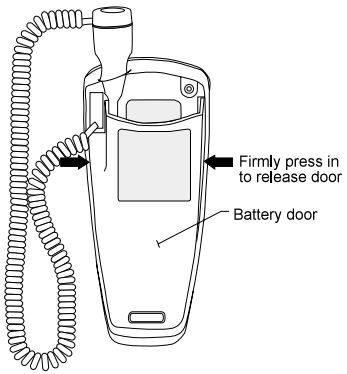
NOTE: When using the Monitor mode, allow the temperature readout to stabilize for 3 minutes for rectal temperatures .

MAINTENANCE

Other than using a new probe cover for each temperature reading, keeping the instrument clean, and replacing the batteries, there is no requirement for user maintenance. Refer to the 679 SureTemp Technical Service Manual for detailed information on security settings, sterilization, and calibration verification.

Battery Replacement

1. With thumb and forefinger, firmly press-in on indentations located on the sides of the rear housing. This will release two snaps.
2. Remove the battery door.
3. Remove batteries. **IMPORTANT:** After removing the old batteries press and hold the **MODE** button for 5 seconds before inserting the new batteries.



4. Replace batteries with AA Alkaline only, orienting per markings on the

inside of the battery well.

5. Replace the battery door by inserting two tabs into bottom of thermometer and snapping back into place.

CLEANING & STERILIZATION

The 679V SureTemp housings may be cleaned with a cloth dampened with alcohol, warm water, or a nonstaining disinfectant such as Sporicidin® Spray and Towelettes or MetriSpray™. Care should be taken not to scratch the LCD faceplate. Low temperature Ethylene Oxide (ETO) sterilization of Oral or Rectal probes is to be used only when absolutely necessary. The procedure for ETO sterilization is described in the 679 SureTemp Technical Service Manual and is available from Customer Service.

SPECIFICATIONS

- Patient Temperature Range: 84.0°F - 108.0°F (28.9°C - 42.2°C).
- Calibration Accuracy: $\pm$0.2°F ($\pm$0.1°C).
- Dimensions (approximate): 2.25 in x 3 in x 7 in (5.72 cm x 7.62 c 17.78 cm); weight 10.5 oz (300 gr).

CUSTOMER SERVICE

For customer service, technical or clinical support, please contact Welch Allyn at (800) 854-2904 from 7:00 AM to 5:00 PM Pacific Time.

Sporicidin is a registered trademark of Sporicidin International (800) 424-3733. MetriSpray is a trademark of Metrex Research Corporation (800) 841-1428.

LIMITED WARRANTY

1-YEAR LIMITED WARRANTY ON NEW INSTRUMENTS: Instrumentation purchased new from Welch Allyn, Inc. (Welch Allyn) is warranted to be free from original defects in material and workmanship under normal use and service for a period of one year from the date of first shipment from Welch Allyn. This warranty shall be fulfilled by Welch Allyn or its authorized representative repairing or replacing at Welch Allyn's discretion, any such defect, free of charge for parts and labor.

Welch Allyn should be notified via telephone of any defective product and the item should be immediately returned, securely packaged and postage prepaid to Welch Allyn. Loss or damage in shipment shall be at purchaser's risk.

Welch Allyn will not be responsible for loss associated with the use of any Welch Allyn product that (1) has had the serial number defaced, (2) has been repaired by anyone other than an authorized Welch Allyn Service Representative, (3) has been altered, or (4) has been used in a manner other than in accordance with instructions.

1-YEAR LIMITED WARRANTY ON PROBES AND PROBE COVERS:
Welch Allyn warrants probe covers and probes to meet Welch Allyn's specifications for the Product at the time of purchase and to be free from original defects in material and workmanship under normal use and service for a period equal to 1 year from the date of first shipment of such Product to the customer by or on behalf of Distributor.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED. WELCH ALLYN WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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(800) 854-2904 • (858) 621-6600 • FAX (858) 621-6610

Welch Allyn, Inc. San Diego, CA 92121

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